



## Request for Proposals

SIR Foundation's Clinical Research and Registries Division strongly encourages the IR community to undertake research initiatives that support evidence-based research and advance patient care. This division supports the development of research trials, clinical registries, and other research programs to address important clinical questions in IR. Current project stakeholders include academia, hospital centers, federal agencies, industry, medical associations and patient advocacy organizations. On December 2-3, 2021, SIR Foundation hosted a Research Consensus Panel (RCP) on "From Code to Bedside the Journey towards Artificial Intelligence in Interventional Radiology", led by investigators Bradley Pua, MD, FSIR from Weill Cornell Medicine and Julius Chapiro, MD from Yale University. The meeting included subject matter experts across several disciplines comprising interventional radiology, data and computer science, population health and representatives from regulatory agencies. The panel discussed critical topics and gaps regarding artificial intelligence's role in interventional radiology that have informed the proceedings paper submitted to the *Journal of Vascular and Interventional Radiology (JVIR)*.

The following topics have been prioritized for further investigation:

1. The immediate research needs include developing instruments for image segmentation, simulation, registration, multi-modality image fusion, characterization, device navigation, therapeutic decision support and outcome prediction.
2. Given the extent of clinical involvement of IR and other conjugated multi-omics modalities in the therapy of HCC across all disease stages, primary liver cancer could represent the first major use case to develop personalized cancer staging system.
3. In order to facilitate the development of FDA-cleared AI applications in IR, our community should create both open and sequestered data commons that encompass ethically sourced, diverse and representative, highly annotated biomedical information in shared collaboration with established organizations.

SIR Foundation's Clinical Research and Registries division is seeking proposals (RFP) from SIR members that align with the RCP's priorities as listed above. If interested, please submit a Letter of Intent (LOI) through [SIR Foundation's grant portal](#) by **August 12<sup>th</sup>, 2022**. If approved, the applicant will be invited to submit a full proposal by the review committee.

For further details on the RCP LOI process, [please click here](#).